

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 December 2004 (09.12.2004)

PCT

(10) International Publication Number
WO 2004/107185 A1

(51) International Patent Classification?: **G06F 13/00,**
H04B 7/185

[CA/CA]; 2496 Leduc Avenue, Coquitlam, British Columbia V3K 5X5 (CA). **MAGNUSSEN, Kjell** [CA/CA]; 6720 Goldsmith Drive, Richmond, British Columbia V7E 4G5 (CA).

(21) International Application Number:
PCT/US2004/015154

(22) International Filing Date: 14 May 2004 (14.05.2004)

(74) Agents: **DALEY-WATSON, Christopher, J. et al.;** Perkins Coie LLP, P.O. Box 1247, Seattle, WA 98111-1247 (US).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/473,744 27 May 2003 (27.05.2003) US

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **MAC-DONALD, DETTWILER AND ASSOCIATES LTD.** [CA/CA]; 13800 Commerce Parkway, Richmond, British Columbia V6V 2J3 (CA).

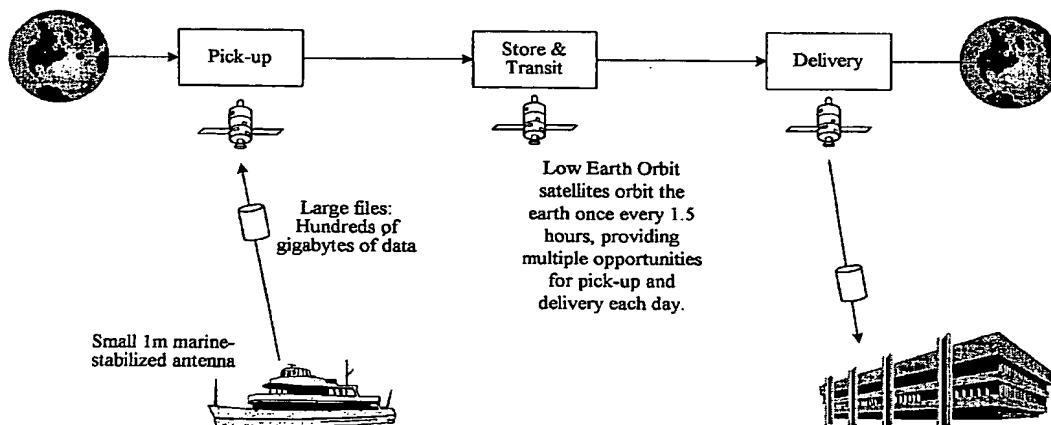
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **GIFFIN, Gregory** [CA/CA]; Apt. 304, 2277 West 2nd, Vancouver, British Columbia V6K 1H8 (CA). **DUFFIELD, Logan** [CA/CA]; 2260 Armcrescent West, Halifax, Nova Scotia B3L 3E3 (CA). **BRAVMAN, Joseph** [US/US]; 7105 Loch Edin Court, Potomac, MD 20854 (US). **WLODYKA, Mark**

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **SATELLITE COMMUNICATIONS SYSTEM FOR PROVIDING GLOBAL, HIGH QUALITY MOVEMENT OF VERY LARGE DATA FILES**



(57) Abstract: A system for providing communication services between geographically disbursed source and destination terminals includes at least one airborne or spaceborne wireless communication device, such as a satellite. The wireless communication device is configured to store and forward large data files of at least an aggregated 10 gigabytes. The wireless communication device includes a wireless transceiver for communicating with the source and destination terminals over at least one high bandwidth channel. A mass data storage device stores the large data files for a predetermined period of time that is greater than approximately two minutes. At least one processor is coupled among the mass data storage and wireless transceiver. The processor is configured to control receipt of a large data file from the source terminal and to transmit it to the destination terminal as the wireless communication device nears the destination terminal.



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.